

USSN 09/608,234
March 20, 2003
Page 2

Official

3-20-03
3:47:33 PM

a display connected to receive the output signal from the processor and superimpose it on a see-through visor which also selectively permits an operator to view actual images disposed in front of said visor; and

a tracking system associated with the display that monitors the movement of the head of the operator and transmits a tracking signal to the processor, the processor producing the output signal based on feedback from the tracking signal.

2. (Amended) The system of claim 1, wherein the vehicle is an aircraft, and wherein the array of vision sensors is mounted close to the cockpit area such that the image signals originate from a location proximate the wearer of the display.

17. (Amended) The system of claim 13, wherein the one other sensor generates a real-time map signal that is combined by the processor into the output signal and displayed on the display outside an image produced by the array of vision sensors.

20. (Amended) The system of claim 1, and further including a manual input device to the processor, wherein the output signal may be manually disabled in select areas on the helmet-mounted display.

Please add the following new claims:

21. (New) The system of claim 1, wherein said display comprises a helmet-mounted display.

22. (New) An enhanced vision system for mobile vehicles, comprising:
an array of vision sensors immovably mounted on the exterior of a vehicle, each sensor being capable of generating image signals;
a processor for producing an output signal from a selected sampling of said image signals;
a display connected to receive the output signal from the processor and superimpose it on a see-through screen which also selectively permits an operator to view actual images disposed in front of said screen; and